



## Safety Data Sheet

This safety data sheet complies with the requirements of: WHS regulation 2011

Product name LVS AGENT

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product Identifier

Product name LVS AGENT  
Product code 441775  
Pure substance/mixture Mixture

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Sold to the general public No  
Recommended use No information available  
Uses advised against Consumer use

#### 1.3. Details of the supplier of the safety data sheet

Supplier Tyco Fire Protection Products  
Level 3, 95 Coventry Street,  
Southbank, Australia-Victoria 3006  
+613 9313 9711

For further information, please contact

E-mail address psra@tycofp.com

#### 1.4. Emergency telephone number

Emergency Telephone Number 612 9037 2994 ( Australia)

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### Regulation (EC) No 1272/2008

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [GHS]

#### 2.2. Label Elements

##### Product Identifier

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [GHS]

##### Signal Word

None

EUH210 - Safety data sheet available on request

#### 2.3. Other Hazards

No information available

### SECTION 3: Composition/information on ingredients

#### 3.1 Mixtures

Chemical name	CAS No	weight-%	Classification according to Regulation (EC) No.
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			<b>1272/2008 [CLP]</b>
Ethylene Glycol	107-21-1	10 < 30%	Acute Tox. 4 (H302)
2-(2-Butoxyethoxy)ethanol	112-34-5	< 10%	Eye Irrit. 2 (H319)
2-Methyl-2,4-pentanediol	107-41-5	< 0.1%	Skin Irrit. 2 (H315) Eye Irrit. 2 (H319)
t-Butanol	75-65-0	< 0.01%	Flam. Liq. 2 (H225) Eye Irrit. 2 (H319) Acute Tox. 4 (H332) STOT SE 3 (H335)

Full text of H- and EUH-phrases: see section 16

## Section 4: First aid measures

### 4.1. Description of first aid measures

<b>Inhalation</b>	Remove to fresh air. If breathing is difficult, give oxygen. (Get medical attention immediately if symptoms occur.).
<b>Skin contact</b>	Wash skin with soap and water. Get medical attention if irritation develops and persists.
<b>Eye Contact</b>	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a doctor.
<b>Ingestion</b>	Rinse mouth. Do not induce vomiting without medical advice. If swallowed, call a poison control centre or physician immediately.

### 4.2. Most important symptoms and effects, both acute and delayed

**Symptoms** No information available.

### 4.3. Indication of any immediate medical attention and special treatment needed

**Note to doctors** Treat symptomatically.

## Section 5: FIRE FIGHTING MEASURES

### 5.1. Extinguishing media

#### **Suitable Extinguishing Media**

Product is extinguishing agent. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

#### **Unsuitable Extinguishing Media**

None

### 5.2. Special hazards arising from the substance or mixture

None known

#### **Hazardous Combustion Products**

Carbon oxides. Fluorinated oxides. Nitrogen oxides (NO<sub>x</sub>). Oxides of sulphur.

### 5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective suit. Use personal protective equipment as required.



## Section 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

#### Personal Precautions

Ensure adequate ventilation, especially in confined areas.

#### For emergency responders

Use personal protection recommended in Section 8.

### 6.2. Environmental precautions

Prevent further leakage or spillage if safe to do so. Prevent entry into waterways, sewers, basements or confined areas. See Section 12 for additional Ecological Information.

### 6.3. Methods and material for containment and cleaning up

**Methods for Containment** Prevent further leakage or spillage if safe to do so.

**Methods for Cleaning Up** Pick up and transfer to properly labelled containers.

### 6.4. Reference to other sections

See section 13 for more information.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

#### Advice on safe handling

Avoid contact with skin and eyes. Handle in accordance with good industrial hygiene and safety practice.

#### General hygiene considerations

Do not eat, drink or smoke when using this product. Handle in accordance with good industrial hygiene and safety practice.

### 7.2. Conditions for safe storage, including any incompatibilities

#### Storage Conditions

Keep containers tightly closed in a dry, cool and well-ventilated place.

### 7.3. Specific end use(s)

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Exposure Limits

Chemical name	Australia
Ethylene Glycol 107-21-1	10 mg/m <sup>3</sup> 20 ppm 52 mg/m <sup>3</sup> 40 ppm STEL 104 mg/m <sup>3</sup> STEL



	Skin
2-Methyl-2,4-pentanediol 107-41-5	25 ppm Peak 121 mg/m <sup>3</sup> Peak
t-Butanol 75-65-0	100 ppm 303 mg/m <sup>3</sup> 150 ppm STEL 455 mg/m <sup>3</sup> STEL

**Derived No Effect Level (DNEL)** No information available

**Predicted No Effect Concentration (PNEC)** No information available.

### 8.2. Exposure controls

**Engineering controls** Showers  
Eyewash stations  
Ventilation systems.

### Personal Protective Equipment

**Eye/Face Protection** Avoid contact with eyes. Tight sealing safety goggles.

**Skin and Body Protection** Suitable protective clothing.

**Environmental exposure controls** No information available.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

<b>Physical State</b>	Liquid	<b>Colour</b>	Amber
<b>Odour</b>	Vinegar		
<b>odour threshold</b>	No data available		

<u>Property</u>	<u>VALUES</u>	<u>Remarks • Method</u>
pH		No data available
Melting point/freezing point		No data available
Boiling point / boiling range	> 100 °C	
Flash Point	> 100 °C	
Evaporation Rate		No data available
flammability (solid, gas)		No data available
Flammability limit in air		
Upper flammability limit:		No data available
Lower flammability limit:		No data available
Vapour Pressure		No data available
Vapour Density		No data available
Specific gravity		No data available
Water Solubility		No data available
solubility(ies)		No data available
Partition coefficient		No data available
Autoignition Temperature		No data available
Decomposition Temperature		No data available
Kinematic viscosity		No data available



Dynamic viscosity	No data available	No data available
Explosive Properties	No data available	
Oxidising Properties	No data available	
density	1.2	

## Section 10: Stability and reactivity

### 10.1. Reactivity

No data available.

### 10.2. Chemical stability

Stable under recommended storage conditions.

### 10.3. Possibility of hazardous reactions

#### hazardous polymerisation

Hazardous polymerisation does not occur.

#### Possibility of hazardous reactions

None under normal processing.

### 10.4. Conditions to avoid

Extremes of temperature and direct sunlight.

### 10.5. Incompatible materials

Strong oxidising agents. Strong acids. Strong bases.

### 10.6. Hazardous decomposition products

Carbon oxides. Nitrogen oxides (NOx). Oxides of sulphur. Fluorinated oxides.

## Section 11: Toxicological information

### 11.1. Information on toxicological effects

#### Acute Toxicity

#### Product information

Product does not present an acute toxicity hazard based on known or supplied information.

#### INHALATION

no data available.

#### Eye Contact

no data available.

#### Skin contact

no data available.

#### INGESTION

no data available.

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral) 2,238.00 mg/kg

Chemical name	Oral LD50	dermal LD50	Inhalation LC50
Ethylene Glycol	= 4000 mg/kg ( Rat )	= 9530 µL/kg ( Rabbit )	
2-(2-Butoxyethoxy)ethanol	= 3384 mg/kg ( Rat )	= 2700 mg/kg ( Rabbit )	
2-Methyl-2,4-pentanediol	= 3692 mg/kg ( Rat )	= 8560 µL/kg ( Rabbit )	> 310 mg/m <sup>3</sup> ( Rat ) 1 h
t-Butanol	= 2733 mg/kg ( Rat )	> 2 g/kg ( Rabbit )	> 10000 ppm ( Rat ) 4 h

Skin Corrosion/Irritation No information available.

Serious eye damage/eye irritation No information available.

<b>sensitisation</b>	No information available.
<b>Germ Cell Mutagenicity</b>	No information available.
<b>carcinogenicity</b>	No information available.
<b>Reproductive Toxicity</b>	No information available.
<b>STOT - Single Exposure</b>	No information available.
<b>STOT - Repeated Exposure</b>	No information available.
<b>Target organ effects</b>	Central Nervous System, EYES, Respiratory System, skin.
<b>Aspiration Hazard</b>	No information available.

## Section 12: Ecological information

### 12.1. Toxicity

Chemical name	Algae/aquatic plants	Fish	Crustacea
Ethylene Glycol	EC50 96 h 6500 - 13000 mg/L Pseudokirchneriella subcapitata	LC50 96 h = 41000 mg/L Oncorhynchus mykiss LC50 96 h 14 - 18 mL/L Oncorhynchus mykiss static LC50 96 h = 27540 mg/L Lepomis macrochirus static LC50 96 h = 40761 mg/L Oncorhynchus mykiss static LC50 96 h 40000 - 60000 mg/L Pimephales promelas static LC50 96 h = 16000 mg/L Poecilia reticulata static	EC50 48 h = 46300 mg/L Daphnia magna
2-(2-Butoxyethoxy)ethanol	EC50 96 h > 100 mg/L Desmodesmus subspicatus	LC50 96 h = 1300 mg/L Lepomis macrochirus static	EC50 24 h = 2850 mg/L Daphnia magna EC50 48 h > 100 mg/L Daphnia magna
2-Methyl-2,4-pentanediol	-	LC50 96 h 10500 - 11000 mg/L Pimephales promelas flow-through LC50 96 h = 10000 mg/L Lepomis macrochirus static LC50 96 h = 8690 mg/L Pimephales promelas flow-through LC50 96 h = 10700 mg/L Pimephales promelas static	EC50 48 h 2700 - 3700 mg/L Daphnia magna
t-Butanol	EC50 72 h > 1000 mg/L Desmodesmus subspicatus	LC50 96 h 6130 - 6700 mg/L Pimephales promelas flow-through	EC50 48 h = 933 mg/L Daphnia magna EC50 48 h 4607 - 6577 mg/L Daphnia magna Static

### 12.2. Persistence and degradability

No information available.

### 12.3. Bioaccumulative potential

No information available.

Chemical name	Partition coefficient
Ethylene Glycol	-1.93
2-Methyl-2,4-pentanediol	0.14
t-Butanol	0.35

### 12.4. Mobility in soil



No information available.

#### 12.5. Results of PBT and vPvB assessment

No information available.

#### 12.6. Other adverse effects

No information available

Endocrine Disruptor Information .

### Section 13: Disposal considerations

#### 13.1. Waste treatment methods

**Waste from Residues/Unused Products**

Disposal should be in accordance with applicable regional, national and local laws and regulations.

**Contaminated Packaging**

Do not re-use container.

### Section 14: Transport information

**Note:** No information available

#### IMDG

14.1 UN/ID no	NOT REGULATED
14.2 Proper Shipping Name	NOT REGULATED
14.3 Hazard class	NOT REGULATED
14.4 Packing group	NOT REGULATED
14.5 Marine Pollutant	Not Applicable
14.6 Special Provisions	None
14.7 Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC CODE	No information available

#### RID

14.1 UN/ID no	NOT REGULATED
14.2 Proper Shipping Name	NOT REGULATED
14.3 Hazard class	NOT REGULATED
14.4 Packing group	NOT REGULATED
14.5 Environmental Hazard	Not Applicable
14.6 Special Provisions	None

#### ADR

14.1 UN/ID no	NOT REGULATED
14.2 Proper Shipping Name	NOT REGULATED
14.3 Hazard class	NOT REGULATED
14.4 Packing group	NOT REGULATED
14.5 Environmental Hazard	Not Applicable
14.6 Special Provisions	None

#### ICAO (air)

14.1 UN/ID no	NOT REGULATED
14.2 Proper Shipping Name	NOT REGULATED
14.3 Hazard class	NOT REGULATED
14.4 Packing group	NOT REGULATED



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14.5 Environmental Hazard Not Applicable  
14.6 Special Provisions None

IATA

14.1 UN/ID no NOT REGULATED  
14.2 Proper Shipping Name NOT REGULATED  
14.3 Hazard class NOT REGULATED  
14.4 Packing group NOT REGULATED  
14.5 Environmental Hazard Not Applicable  
14.6 Special Provisions None

**Section 15: Regulatory information**

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

National Regulations

**Australia**

See section 8 for national exposure control parameters

**carcinogenicity**

International Inventories

TSCA Complies  
DSL/NDSL Complies  
EINECS/ELINCS Does not comply  
ENCS Does not comply  
IECSC Does not comply  
KECL Complies  
PICCS Does not comply  
AICS Complies

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory  
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List  
EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances  
ENCS - Japan Existing and New Chemical Substances  
IECSC - China Inventory of Existing Chemical Substances  
KECL - Korean Existing and Evaluated Chemical Substances  
PICCS - Philippines Inventory of Chemicals and Chemical Substances  
AICS - Australian Inventory of Chemical Substances

15.2. Chemical safety assessment

No information available

**SECTION 16: Other information**

**Full text of H-Statements referred to under section 3**

H302 - Harmful if swallowed  
H319 - Causes serious eye irritation

Revision date 09-Nov-2016





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**Revision note** Not Applicable.

**This safety data sheet complies with the requirements of WHS regulation 2011**

**End of Safety Data Sheet**